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CENTRAL INTELLIGENCE AGENCY

INFORMATION REPORT

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COUNTRY	USSR (Ukrainian SSR)	REPORT			
SUBJECT	Contribution of German Specialists in th Indanthrene Field at NIOPiK, Rubezhnoye	e DATE DI	STR.	10 M	arch 1954
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2. Professor VOROZHTSOV, referred to in Paragraph 11, died c.1943.

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	COUNTRY :	USSR	DATE DICTO 4 FF	R 54
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•	CONTRIBUTION AT NIOP1K,	NS OF THE GERMAN SPECIALIST GROUP IN THE INI RUBEZHNOYE	DANTHRENE FIELD	
	1.	between 19	945 and 1951	50X1-HU
	and deve	certain aspects of So elopment in the field of synthetic dyestuffs.	The main mission	
•	of the (German group in the NIOPiK laboratory in Rube al and scientific development of methods nece	zhnove was the	
	manufact	ture of indanthrene dyestuffs. The German sp	ecialists.	
	not brin	of the hasty, haphazard way in which they we ng with them any scientific data or material	on this subject:	
	nor did	the original Soviet plans call for the place in this specific field of research. Appar	ment of the	
	Soviets	already performed some research and prelimin	ary work on the	
	lack of	rene dyestuffs before the Germans arrived but initiative and technical know-how. This ini	were stymied by	٠.
	performe these de	ed before the war in the NIOPiK laboratory in evelopments were apparently based on scientif available standard literature.	Moscow and	•
	main sou		mr-	50X1-HU
		arce of information in the field of dyestuffs	The in the USSR	50X1-HL
	German o	Soviet dismantling and copy program conducte	in the USSR	50X1-HU
	German o	arce of information in the field of dyestuffs Soviet dismantling and copy program conducte chemical plants immediately after the end of	in the USSR	50X1-HU
	German o	Soviet dismantling and copy program conducte	in the USSR	50X1-HU

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- 2 -· 50X1 where a great variety of dyestuff manuals and literature was made The work of the German specialists in the field of dyestuffs pushed Soviet development in that field considerably forward. There is certainly no doubt that the Soviets could have carried out this research and development themselves and even have brought it to a production phase merely by working with the copied and confiscated manuals and literature they took from Germany. Without the help of the Germans, however, the development work in this field would probably have stretched an additional two years, assuming of course that the same number of Soviet chemists would have been made available on the project as were Germans. 3. As mentioned above, the German specialists brought no literature nor any specific background material with them when they came to the USSR; hence, they were forced to work themselves into this field with little or no basic aid. In addition, most had little skill in indanthrene dyestuff research, but before long worked 50X1-HUM into the routines and were actually operating smoothly. The Soviets. were satisfied and _____this whole peculiar situation may have ev.50X1-HUM been premeditated, just to see how the specialists operated under difficult conditions. were in no way rushed nor was it in any way indicated that speed in our work was necessary. were given more 50X1-HUM or less a free hand in the carrying out of ____ research. Soviet counterparts would have had much more benefit had they heeded the specialists' suggestions and advice in the 50X1-HIM performance of our easigned missions. When Germans were called 50X1-HUM upon to work together with the production people in an advisory capacity, it was generally evident that the working out of detailed laboratory or testing procedures was carried out in a slipshod, haphazard method without care or precision. The results of the work performed under these conditions were turned over to the production phase without further scrutiny or test in the laboratory. The Soviets purposely spent more time than was necessary in supposed observation, in changing original procedures and injecting what they called improvements. Georgie, Harry In the field of indanthrene dyestuffs, the German contribution to the Soviet research and development effort was not only the working out of new specifications but also the introduction of new working methods and the training and indoctrination of young Soviet chemists and technicians. "My Soviet group chief, PLAKIDIN, a young and ambitious chemist; 50X1-HUM course several dyestuffs products were developed by Soviet chemists alone, but these were insignificant in number. It is hardly possible to speak of any original Soviet developments or the introduction of new fields. The Soviets attempted to copy several important dyestuff types of the indanthrene class which were already in the world markets. In the azo dyestuff class there were several products even before the war which apparently deviated, if only slightly, from commercial dyestuffs, but these were few and far between and could not 50X1-HUM be considered of high quality. the most important factors missing in the USSR were tradition and experience. Soviet 50X1-HUM chief, PLAKIDIN, in requesting a detailed report on some explained, "You must consider that in Germany you have a 50-year-old tradition to fall back upon, whereas we are only starting."

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6.	In the field of indanthrene dyestuff complished what they had planned. Bestuff products were ready for the products were ready for the products.	y 1951 several important dye-				
	tion	from the USSR 50X1-HUM				
	it seems that the Soviets released several of these dyestuff products					
	to the Balkan markets. Hints in let					
	have made	it evident that after the majority				
	of the German scientists were repatr by the Soviets was seriously hindere	riated in June 1951 further progres _{50X1-HUN}				

- 7. In 1951 when the production of the highly valued indanthrene dyestuff started, the USSR celebrated this event with compliments and praises of the magnificent strides Soviet science had accomplished. The technical chief of the NIOPik laboratory, the Soviet administration of the Khimkombinat, and the chiefs of the dyestuff production plants all shared in the Stalin prize which was presented as the result of their work in this field. The work of the German specialists, however, was not even mentioned in the citation. The prize was awarded for work conducted on dyestuffs which were already on the world market.
- 8. Any direct interference by supervisory personnel in the work progress of the German specialists was unknown except of course in the case of any deviation from the work patterns or methods that they 50X1-HUM themselves introduced. Nor were Soviet methods or literature in any way more preferred than _____ publications or manuals. It did not 50X1-HUM that persons who were ideologically inclined were preferred in vital scientific positions over the persons who were technically better suited.
- 9. In the years between 1949-1951 it seemed that all available specialist personnel were put to work in the field of indanthrene dyestuffs. This was the priority project, and all effort was exerted in its accomplishment regardless of expense. In this connection, 50X1-HUM know whether or not other projects suffered as a result of the pressure put onto the priority projects.
- 10. The indigenous manufacture of indanthrene dyestuffs is of course of prime importance. These dyestuffs are especially vital in the dyeing of cotton. The USSR has attempted to break away from dependence on the import of these valuable chemical products, not only because of the duty, but also (probably the prime reason) for the purpose of being able to supply the Eastern bloc nations and to dominate the Asiatic markets. 50X1-HUM Soviet industry will not reach the high quality standards which German industry had and has. In spite of continued warnings on the part of the German specialists that the preservation of quality was of the utmost importance, the Soviet attitude of quantity over quality predominated.
- 11. It can be safely stated that before the first World War, Russian chemists definitely contributed toward research and development in modern chemistry. Of course in those days they worked in close cooperation with the scientists of the world, and it was mandatory that their education be more fully rounded out by attendance at universities. In spite of this broad scientific 50X1-HUM 50X1-HUM intercourse, Russian chemical advancements were not as world shaking as the Soviets would lead us to believe today; the contributions Section King

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that they made were just a part of the great mosaic in the chemical industry. Even today, the USSR has scientists who make the dyestuff field their particular specialty: professors VOROZHTSOV, PORAI-KOSHITS, RADIONOV, BOGDANOV, STEPANOV, and others. However, as far as can be estimated from literature, their talente and potential capabilities are so hampered by political influence, that they cannot devote their minds to sound objective reasoning and exploitation of new fields. Even the technical literature reflects the Party line. The standard higher educational institutions produce only mediocre new chemists, and only a very small number of these young graduates bring themselves to a point where they can favorably be compared with their counterparts. This is can favorably be compared with their counterparts. This accomplished, however, only after long and tedious work and study 50X1-HUM on the part of the individual on his own time. The limitations of Soviet research in the field of dyestuff chemistry, 50X1-HUM are insufficient new chemists, lack of tradition and experience, and the limitation of personal initiative by the state's interference in the progress of normal work. list the advantages as 50X1-HUM being the Soviets' gift in the art of improvisation, and the persistence and ability to copy foreign inventions. Soviet research and development in the field of dyestuffs will never pass the 50X1-HUM world's because of its laboring, stumbling pace, and its principle. of quantity over quality.

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